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#### PCT

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#### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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#### Published

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#### (57) Abstract

Substituted pyridines of formula (IA) are produced by reaction of suitably substituted pyridylaldehydes with Grignard or Witting reagents, and the resulting products are appropriately reduced. The pyridines of formula (IA) are suitable as active compounds in pharmaceutical products, particularly in pharmaceutical products for the inhibition of cholesterol ester transfer proteins. 3-Heteroalkylaryl-substituted pyridines of formula (IB) are produced from pyridines which are correspondingly protected at the hydroxy group and correspondingly substituted. The compounds of formula (IB) according to the invention are suitable as active compounds in pharmaceutical products, particularly pharmaceutical products for the treatment of hyperlipoproteinemia. Substituted pyridines and benzenes of formula (IC) are produced by procedures disclosed herein, and are useful as active ingredients in pharmaceutical products, particularly pharmaceutical products for inhibition of the glucagon receptor, leading to treatment of glucagon-mediated conditions such as diabetes.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C07D213/30 C07D213/32 C07D403/06 A61K31/44 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 C07D A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1-20 EP 0 306 929 A (WARNER-LAMBERT CO.) 15 Υ March 1989 see claims 1-10 EP 0 325 129 A (BAYER AG) 26 July 1989 1-47 Y see claims 1-14 1-47 EP 0 325 130 A (BAYER AG) 26 July 1989 Y cited in the application see claims 1-15 EP 0 444 533 A (E.R. SQUIBB & SONS, INC.) 1-10 4 September 1991 see claims 11-4 1-47 EP 0 603 699 A (BAYER AG) 29 June 1994 see claims 1-10 -/--X Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents : T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international \*X° document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docucitation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 0 6. 03. 98 24 February 1998 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Herz, C Fax: (+31-70) 340-3016

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
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Interacional application No. PCT/US 97/13248

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
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Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-10

anti-hypercholesterinemic tetrasubstituted 4-arylpyridines of formula IA having an alkyl group in 3- and/or 5-position which carries a cyclic moiety

2. Claims: 11-20

anti-hyperlipoproteinemic trisubstituted 3-hydroxymethyl-4-arylpyridines of formula IB having an heteroalkyl group in the 5-position which carries a cyclic moiety

3. Claims: 21-47

anti-glucemic tetrasubstituted 4-(het)arylpyridines and benzenes of formulae 1A, 1B, 1C and 1D having a hydroxy, trifluoroacetyl or alkyl group in the 5-position which is substituted by a trifluoromethyl or hydroxy group

Intormation on patent family members

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